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(54) EXHAUST GAS PURIFYING SYSTEM

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an exhaust gas purifying device having an excellent purifying performance to a lean-burn exhaust gas concerned in low exhaust gas temp. and low HC/NOx ratio condition and capable of improving an NOx reduction purification efficiency.

SOLUTION: In a system using a catalyst for purifying oxygen-excess exhaust gas, an NOx adsorptive reducing catalyst capable of adsorbing NOx and also

capable of reducing the NOx at an NO₂ forming temp. zone in which the reaction expressed by the following formula $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$ proceeds is used, and the concn. of hydrocarbons and/or carbon monoxide at the inlet of the NOx adsorptive reducing catalyst is varied at the NO₂ forming temp. zone. A hydrocarbon adsorbable/releasable material is arranged on the upstream side of the exhaust gas passage and an NOx adsorbable/reducible material is arranged on its downstream side preferably.

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